U.S. DEPARTMENT OF THE INTERIOR

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SELECTED WATER RESOURCES ABSTRACTS

ANNUAL CUMULATED INDEXES TO VOLUME 23, 1990

PART 1 AUTHOR
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PREFACE

Selected Water Resources Abstracts, a monthly journal, includes abstracts of current and earlier pertinent monographs, journal articles, reports, and other publication formats. These documents cover water resources as treated in the life, physical, and social sciences and the related engineering and legal aspects of the characteristics, supply condition, conservation, control, use, or management of water resources. Each abstract includes a full bibliographic citation and a set of descriptors which are listed in the **Water Resources Thesaurus.** The abstract entries are classified into 10 fields and 60 groups similar to the water resources research categories established by the Committee on Water Resources Research of the then Federal Council for Science and Technology.

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Comments and suggestions concerning the contents and arrangement of this bulletin are welcome.

Water Resources Scientific
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W90-11189 2312 5D

INSTITUT ARMAND-FRAPPIER, LAVAL (QUEBEC). CENTRE DE RECHERCHE EN VIROLOGIE.
Elimination of Viruses and Bacteria During Drinking Water Treatment: Review of 10 Years of Data from the Montreal Metropolitan Area.
W90-01755 2302 5F

Concentration of Giardia lamblia Cysts, Legionella pneumophila, Clostridium perfringens, Human Enteric Viruses, and Coliphages from Large Volumes of Drinking Water, Using a Single Filtration.
W90-04095 2305 5F

Elimination of Viruses and Bacteria During Drinking Water Treatment: Review of 10 Years of Data from the Montreal Metropolitan Area.
W90-06911 2308 5F

INSTITUT D'ECOLOGIA AQUATICA, GERONA (SPAIN).
New Bathymetric Map Based On Echo-Sounding and Morphometrical Characterization of the Lake of Banyoles (NE-Spain).
W90-07152 2308 2H

Distribution of Iron in Lake Banyoles in Relation to the Ecology of Purple and Green Sulfur Bacteria.
W90-08318 2309 2H

INSTITUT DE BIOGEOCHIMIE MARINE, MONTROUGE (FRANCE).
Biogeochemical Processes Affecting Arsenic Species Distribution in a Permanently Stratified Lake.
W90-02142 2303 5B

River Versus Atmospheric Input of Material to the Mediterranean Sea: An Overview.
W90-05969 2307 5B

Stable Oxygen Isotope Distribution in the Huanghe (Yellow River) and the Changjiang (Yangtze River) Estuarine Systems.
W90-10238 2311 2L

Distribution of Arsenite and Total Dissolved Arsenic in Major French Estuaries: Dependence on Biogeochemical Processes and Anthropogenic Inputs.
W90-10806 2312 5B

INSTITUT DE GEOLOGIE DU BASSIN D'AQUITAINE, TALENCE (FRANCE).
Continental Fluxes to the Bay of Biscay: Processes and Behaviour.
W90-06688 2308 2K

INSTITUT DE LA CARTE INTERNATIONALE DU TAPIS VEGETAL, TOULOUSE (FRANCE).
Biodegradation of Crude Oil in an Experimentally Polluted Peaty Mangrove Soil.
W90-04058 2305 5G

INSTITUT DE MECANIQUE DE GRENOBLE, SAINT-MARTIN D'HERES (FRANCE).
Rain-Flow Rate Modelling. A Contribution to the Development of the DPFT Method (Modelisation Pluie-Debit: Validation par Simulation de la Methode DPFT).
W90-01133 2302 7C

Hydrological Radar: Results and Experiments Currently Being Conducted in France (Hydrologie Radar: Bilan et Perspectives).
W90-01139 2302 7B

Additional Results Concerning the Spatial Distribution of Rainfall and Its Role in the Transformation of Rainfall-Runoff (La Distribution Spatiale des Precipitations et son Role dans la Transformation Pluie-debit).
W90-01140 2302 2B

Prediction of Cavitation as a Function of Water Nuclei Content and Hydrodynamic Conditions (Case of the Flow Around a Two-Dimensional Hydrofoil) (La Prevision de la Cavitation en Fonction de l'etat de Nucleation de l'eau et des Conditions Hydrodynamiques (Cas de l'ecoulement Autour d'une aile bidimensionnelle)).
W90-01141 2302 8B

Recent Research Relating to Cavitation Carried out at the Grenoble Institute of Mechanics (Recherches Recentes sur la Cavitation a l'Institut de Mecanique de Grenoble).
W90-01142 2302 8B

Flow of Water and Air in Soils: Theoretical and Experimental Aspects.
W90-01593 2302 2G

INSTITUT DE RECHERCHE DE L'HYDRO-QUEBEC, VARENNES.
Influence of Structural Parameters on Abrasion-Erosion Resistance of Various Repairing Mortars.
W90-07234 2308 8F

INSTITUT DE RECHERCHES AGRONOMIQUES TROPICALES ET DES CULTURES VIVRIERES, ST.-DENIS (REUNION).
Tropicalisation of Automatic Weather Stations and Initial Results for Improved Irrigation Water Management in Reunion Island.
W90-09571 2311 3F

INSTITUT DE RECHERCHES CHIMIQUES, TERVUREN (BELGIUM).
Relation Between the Molecular Structure and the Adsorption of Arylcarbamate, Phenylurea and Anilide Pesticides in Soil and Model Organic Adsorbents.
W90-00476 2301 5B

INSTITUT DE RECHERCHES SCIENTIFIQUES SUR LE CANCER, VILLEJUIF (FRANCE). CANCEROGENESE EXPERIMENTENTALE ET TOXICOLOGIE GENETIQUE.
Contamination of Aquatic Systems and Its Genetic Effects.
W90-07544 2309 5C

INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER, BREST.
High Long-term Nitrate Uptake by Oyster-pond Microalgae in the Presence of High Ammonium Concentrations.
W90-02001 2303 2K

Modelling Ulva Coastal Mass Blooms with Applications (La Modelisation des Marees Vertes' Li Horales et ses Applications).
W90-11732 2312 5C

Eutrophication Modelling in the Vilaine Bay. An Application to the Anoxia Events (Modelisation de l'Eutrophisation de la Baise Vilaine et des Phenomenes d'Anoxie Associes).
W90-11733 2312 2L

Modelling Dissolved and Particulate Contaminants Transport in the Morlaix Estuary. Application to Enteric Bacteria Discharge (Modelisation du Transpor Dissous et Particulaire dans l'Estuaire de Morlaix. Application au Devenir des Bacteries Enteriques).
W90-11737 2312 5B

INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER, BREST. DEPT. ENVIRONNEMENT LITTORAL.
Organic Pollutants in Urban Sewage and Pollutant Inputs to the Marine Environment. Application to the French Shoreline (Les Pollutants Organiques dans les Effluents Urbains et Apports Pollutants dans le Milieu Marin. Cas du Littoral Francais).
W90-00906 2301 5B

Fate of Natural and Anthropogenic Dissolved Organic Carbon in the Macrotidal Elorn Estuary (France).
W90-10805 2312 5B

INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER, LA SEYNE-SUR-MER. SERVICE ENVIRONMENT MEDITERRANEAN.
Effect of Maximum Turbidity Zone on the Variations of Dissolved Oxygen Concentration: Example of the Estuary of the Loire (Influence du Bouchon Vaseux sur la Variations des Concentrations en Oxygen Dissous Cas de l'Estuaire de la Loire).
W90-11735 2312 2L

INSTITUT FRANCAIS DE RECHERCHE SCIENTIFIQUE POUR LE DEVELOPPEMENT EN COOPERATION, PARIS (FRANCE).
Model of Transpiration and Soil-Water Balance for a Mature Oak Forest.
W90-02779 2304 2D

INSTITUT FRANCAIS DU PETROLE, RUEIL-MALMAISON.
Mobility of Soluble and Non-Soluble Hydrocarbons in Contaminated Aquifer.
W90-08675 2310 5B

Hydraulic Fracturing During Basin Scale Fluid Migration: An Integrated Approach.
W90-11388 2312 2F

INSTITUT FUER ANORGANISCHE UND ANALYTISCHE CHEMIE, TECHNISCHE UNIVERSITAET BERLIN, STRASSE DES 17, JUNI 135, D-1000 BERLIN 12.
Investigations on the Equivalence of Analytical Procedures: Determination of Chloride by Flow Injection Analysis and DIN-Method in Water Analysis (Untersuchungen zur Gleichwertigkeit von Analysenverfahren: Fliessinjektionsanalyse und DIN-Verfahren bei der Chloridbestimmung in der Wasseranalytik).
W90-03268 2304 7B

INSTITUT FUER CHROMATOGRAPHIE, BAD DUERKHEIM (GERMANY, F.R.).
High Boiling Organic Traces in Drinking Water: Quantitative Analysis by Liquid-Liquid Enrichment within the Analytical Glass Capillary.
W90-03228 2304 5A

INSTITUT FUER LIMNOLOGIE, MONDSEE (AUSTRIA).
Phosphate Uptake by Eukaryotic Algae in Cultures and by a Mixed Phytoplankton Population in a Lake: Analysis by a Force-Flow Relationship.
W90-05039 2306 2H

Chemistry of High Mountain Lakes in Siliceous Catchments of the Central Eastern Alps.
W90-05386 2306 2H

Investigations of Trophic Change and Industrial Tailings Accumulation in the Traunsee (Austria) Using Diatom Stratigraphy (Diatomeenstratigraphische Untersuchungen zer Trophieanderung und Industrieschlammakkumulation im Traunsee/Osterreich).
W90-06093 2307 5C

Trophic Relationships in the Pelagic Zone of Mondsee, Austria.
W90-08085 2309 2H

Nutrient Input and Trophic Status of the 'Neue Donau', A High-Water Control System Along the River Danube in Vienna, Austria.
W90-08623 2309 6G

INSTITUT FUER PFLANZENBIOLOGIE, ZURICH (SWITZERLAND).
Effect of Eutrophication on Species Composition and Growth of Freshwater Mussels (Mollusca, Unionidae) in Lake Hallwil (Aargau, Switzerland).
W90-05385 2306 5C

INSTITUT FUER SPEKTROCHEMIE UND ANGEWANDTE SPEKTROSKOPIE, DORTMUND (GERMANY, F.R.).
Atmospheric H2O2 Field Measurements in a Tropical Environment: Bahia, Brazil.
W90-07230 2308 5B

INSTITUT FUER TIERWISSENSCHAFTEN, FREISING (GERMANY, F.R.).
Lake Typology and Indicator Organisms in Application to the Profundal Chironomid Fauna of Starnberger See (Diptera, Chironomidae).
W90-02234 2303 2H

INSTITUT FUER UMWELTANALYTIK UND BIOTECHNOLOGIE G.M.B.H., PFORZHEIM (GERMANY, F.R.).
Microbiological Investigations of Heterotrophic Nitrification in Activated Sludge Plants with Fixed Sludge Beds (Mikrobiologische Untersuchungen zur Heterotrophen Nitrifikation in Belebtschlammanlagen mit Festkoerpereinbauten).
W90-02270 2303 5D

Tests of Measures for the Improvement of the Capacity of Small Sewage Treatment Plants (Erprobung von Massnahmen zur Verbesserung der Leistung Kleinerer Klaeraniagen).
W90-02285 2303 5D

INSTITUT FUER VOGELFORSCHUNG, WILHELMSHAVEN (GERMANY, F.R.).
Seabirds as Monitor Organisms of Contaminants Along the German North Sea Coast.
W90-10688 2312 5A

INSTITUT FUER WASSERFORSCHUNG, DORTMUND (GERMANY, F.R.).
Development of a Slow Sand Filter Model as a Bioassay.
W90-08482 2309 4B

INSTITUT FUER WASSERFORSCHUNG, SCHWERTE (GERMANY, F.R.).
Management of Slow Sand Filters in Respect to Ground Water Quality.
W90-08475 2309 5F

INSTITUT FUER WASSERWIRTSCHAFT, BERLIN (GERMAN D.R.).
Macroscale Hydrologic Models in Support to Climate Research.
W90-01574 2302 2A

Up-dating of Discharge Rating Curves by Means of Mathematical Models.
W90-01799 2302 7B

INSTITUT JOZEF STEFAN, LJUBLJANA (YUGOSLAVIA).
Experiences of Prospections of Radon-222 in Waters.
W90-03136 2304 2F

Radionuclides in Effluent from Coal Mines, A Coal-Fired Power Plant, and a Phosphate Processing Plant in Zasavje, Slovenia (Yugoslavia).
W90-09054 2310 5B

Natural Radioactivity of Fresh Waters in Slovenia, Yugoslavia.
W90-11877 2312 2K

INSTITUT MAURICE-LAMONTAGNE, MONT-JOLI (QUEBEC).
Early Diagenesis of Lead in Laurentian Trough Sediments.
W90-01977 2303 2K

Relationships between Bacteria, Phytoplankton and Particulate Organic Carbon in the Upper St. Lawrence Estuary.
W90-02211 2303 2L

Distribution and Abundance of Ichthyoplankton in the Manicouagan Estuary, a Tributary of the Lower St. Lawrence Estuary.
W90-09043 2310 2L

INSTITUT MAURICE-LAMONTAGNE, MONT-JOLI (QUEBEC). BIOLOGICAL OCEANOGRAPHY DIV.
Occurrence of Okadaic Acid, a Major Diarrheic Shellfish Toxin, in Natural Populations of Dinophysis spp. from the Eastern Coast of North America.
W90-09277 2310 5B

INSTITUT NATIONAL AGRONOMIQUE DE TUNIS (TUNISIA). CENTRE DE GESTION DES RESSOURCES EN EAU.
Development of a Model for Production of Water Transfer in a Semi-arid Zone in Tunisia (Elaboration d'un Modele de Prediction du Transfert Hydrique sous Jachere dans les Zones Semi-arides de la Tunisie).
W90-01415 2302 3F

INSTITUT NATIONAL AGRONOMIQUE PARIS-GRIGNON (FRANCE). LAB. DE GEOBOTANIQUE.
Sequence of Plant Communities as Bioindicators of Increasing Eutrophication in Weakly Mineralised Streams in the Sandstone Hills of the Northern Vosges (Une Sequence de Groupements Vegeteaux Bio-indicateurs d'Eutrophisation Croissante des Cours d'Eau Faiblement mineralises des Basses Vosges Greseuses du Nord).
W90-11190 2312 5C

INSTITUT NATIONAL AGRONOMIQUE PARIS-GRIGNON (FRANCE). LAB. DES SOLS.
Adsorption of Organic Chemicals in Soils.
W90-08303 2309 5B

INSTITUT NATIONAL DE L'ENSEIGNEMENT SUPERIEUR DE GENIE CIVIL, TIZI-OUZOU (ALGERIA).
Jump Flowmeter in a Channel of Triangular Cross-Section without Weir (Debitmetre a Ressaut en Canal de Section Triangulaire sans Seuil).
W90-11754 2312 2E

INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE, CHALONS-SUR-MARNE (FRANCE). STATION D'AGRONOMIE.
Water Movements in the Unsaturated Zone and Recharge of the Aquifer in the Champagne Chalk (France): Isotopic and Chemical Approaches Mouvements de l'Eau dans la Zone Non Saturee et Alimentation de la Nappe de la Craie de Champagne (France).
W90-09972 2311 2F

INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE, MASSY (FRANCE). STATION DE TECHNOLOGIE ALIMENTAIRE.
Acetoclastic Methanogens in Anaerobic Digesters.
W90-03853 2305 5D

Propionate Conversion to Butyrate in an Anaerobic Digester.
W90-03864 2305 5D

INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE, MONTFAVET (FRANCE). STATION DE SCIENCE DU SOL.
Use of Remotely Sensed Soil Moisture Content as Boundary Conditions in Soil-Atmosphere Water Transport Modeling: 1. Field Validation of a Water Flow Model.
W90-04660 2306 2G

Use of Remotely Sensed Soil Moisture Content as Boundary Conditions in Soil-Atmosphere Water Transport Modeling: 2. Estimating Soil Water Balance.
W90-04661 2306 2G

INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE, THONON-LES-BAINS (FRANCE). CENTRE DE RECHERCHES GEODYNAMIQUES.
Water Transfers into Glacial Deposits of a Watershed in the Geneva Lake Basin: Water Transfers in the Unsaturated Zone (Etude des Transferts d'Eau a l'Interieur d'une Formation Morainique Dans le Bassin du Leman: Transferts d'eau la Zone non Saturee).
W90-03912 2305 2E

INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE, THONON-LES-BAINS (FRANCE). INST. DE LIMONOLOGIE.
Heterotrophic Capabilities of the Blue-Green Alga Oscillatoria rubescens.
W90-04808 2306 2H

INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE, VERSAILLES (FRANCE). LAB. DE BIOLOGIE DE LA RHIZOSPHERE.
Use of Roots Transformed by Agrobacterium rhizogenes in Rhizosphere Research: Applications in Studies of Cadmium Assimilation from Sewage Sludges.
W90-05382 2306 7B

INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE, RIMOUSKI (QUEBEC). CENTRE D'OCEANOLOGIA.
Effect of Variable Nutrient Supply on Fatty Acid Composition of Phytoplankton Grown in an Enclosed Experimental Ecosystem.
W90-07941 2309 2L

INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE, SAINTE-FOY (QUEBEC).
Testing Readsorption of Trace Elements during Partial Chemical Extractions of Bottom Sediments.
W90-00690 2301 5A

Partitioning of Zinc Between the Water Column and the Oxic Sediments in Lakes.
W90-00853 2301 5B

Evaluation of Groundwater Vulnerability to Pesticides: A Comparison Between the Pesticide DRASTIC Index and the PRZM Leaching Quantities.
W90-00877 2301 5B

Comparative Study of Three Dynamic Activated Sludge Models (Etude Comparative de Trois Modeles Dynamiques de Boues Activees).
W90-01369 2302 5D

Algal Interactions with the Genotoxic Activity of Selected Chemicals and Complex Liquid Samples.
W90-02033 2303 5C

Confidence Intervals for Design Flood Events Under Different Statistical Flood Models.
W90-02518 2303 2E

Eliminating Surplus Urban Sludge by the Fertilization of Forests (Elimination des Boues Residuaires Urbaines par la Fertilisation Sylvicole).
W90-04020 2305 5E

Thermophilic Process for Protein Recovery as an Alternative to Slaughterhouse Wastewater Treatment.
W90-04861 2306 5D

Interactions between Arsenic and Iron Oxyhydroxides in Lacustrine Sediments.
W90-06057 2307 5B

Effect of Applications of Sewage Sludge on N, P, K, Ca, Mg and Trace Elements Contents of Plant Tissues.
W90-06974 2308 5E

Zirconium Toxicity Assessment Using Bacteria, Algae and Fish Assays.
W90-07221 2308 5C

Phytoplankton Recovery Responses at the Population and Community Levels in a Hazard and Risk Assessment Study.
W90-07273 2308 5C

Modeling Solute Transport in Soils in the Presence of Dissolved Humic Substances.
W90-07401 2308 5B

Complexation-Adsorption Model Describing the Influence of Dissolved Organic Matter on the Mobility of Hydrophobic Compounds in Groundwater.
W90-08673 2310 5B

Mesophilic and Thermophilic Aerobic Digestion of Municipal Sludge in an Airlift U-Shape Bioreactor.
W90-09182 2310 5D

Leaching of Strong Acid Anions from Snow during Rain-on-Snow Events: Evidence for Two Component Mixing.
W90-09435 2310 5B

Probabilistic Approach for the Groundwater Vulnerability to Contamination by Pesticides: The VULPEST Model.
W90-11696 2312 5B

INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, VILLENEUVE D'ASCQ (FRANCE). MICROBE ECOTOXICOLOGY UNIT 146.
Bioassay Using the Measurement of the Growth Inhibition of a Ciliate Protozoan: Colpidium campylum Stokes.
W90-07265 2308 5A

Studies on Interactions Between Components of Electroplating Industry Wastes: Influence of Nickel and Calcium on Interactions Between Cadmium, Copper, Chromium and Zinc.
W90-10860 2312 5B

Studies on Synergistic Toxic Effects of Copper and Dithiocarbamate Pesticides with the Ciliate Protozoan Colpidium campylum (Stokes).
W90-11161 2312 5C

INSTITUT PASTEUR DE LYON (FRANCE).
Acute Toxicity of Nitrophenols to Daphnia magna (Toxicite Aigue des Nitrophenols vis-a-vis de Daphnia magna).
W90-00672 2301 5C

INSTITUT PASTEUR, PARIS (FRANCE). DEPT. DE BIOCHIMIE ET GENETIQUE MOLECULAIRE.
Hybridization of DNA from Methanogens with Eubacterial Probes.
W90-03862 2305 5D

INSTITUT ROYAL DES SCIENCES NATURELLES DE BELGIQUE, BRUSSELS.
Factors Influencing the Uptake of Technetium by the Brown Alga Fucus serratus.
W90-06645 2308 5A

INSTITUT ROYAL METEOROLOGIQUE DE BELGIQUE, BRUSSELS. HYDROLOGY SECTION.
Sahelian Drought(s) as Seen from the Rainfall Data of a Mauritanian Station.
W90-01411 2302 7B

Simple System to Manage a Hydrological Data Base - Application of Personal Computers(Un Systeme Simple de Gestion d'une Base de Donnees Hydrologiques - Application pour Ordinateurs Personnels).
W90-04293 2305 7C

Simulation of the Impact of CO2 Atmospheric Doubling on Precipitation and Evapotranspiration--Study of the Sensitivity to Various Hypotheses.
W90-08568 2309 2B

INSTITUT RUDJER BOSKOVIC, ROVINJ (YUGOSLAVIA). CENTAR ZA ISTRAZIVANJE MORA.
Increased Eutrophication of the Northern Adriatic Sea.
W90-04062 2305 5C

Sediment Toxicity Assessment Using Bacterial Bioluminescence: Effect of an Unusual Phytoplankton Bloom.
W90-04655 2306 7B

Application of the SOS umu-Test in Detection of Pollution Using Fish Liver S9 Fraction.
W90-10222 2311 5A

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Reconstruction of a Concentration Field in a Coastal Sea.
W90-04592 2306 5B

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Natural Environment Surpasses Polluted Environment in Inducing DNA Damage in Fish.
W90-01114 2302 5C

Effect of Surface Active Substances on the Electrochemical Behaviour of Copper Ions in Chloride Solutions and in Natural Waters.
W90-04843 2306 2K

Mercury Distribution in the Krka River Estuary (Eastern Adriatic Coast).
W90-05967 2307 5B

Cadmium-Induced Proteins from Mytilus galloprovincialis: Polarographic Characterization and Study of Their Interaction with Cadmium.
W90-05970 2307 5C

Trace Metals in Sediments From the Adriatic Sea.
W90-07394 2308 5B

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Quantitative Modeling of Soil Sorption for Xenobiotic Chemicals.
W90-08304 2309 5B

INSTITUT ZA NUKLEARNE NAUKE BORIS KIDRIC, BELGRADE (YUGOSLAVIA).
Study of Groundwaters Using the Environmental Tritium and Hydrochemical Data in the Belgrade Region.
W90-07188 2308 2F

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Some Aspects of Kalman Filtering Application in Hydrologic Time Series Processing.
W90-03087 2304 2E

Numerical Aspects of Simulation and Optimization Models for a Complex Water Resources System Control.
W90-03093 2304 3F

Use of an Empirical Method (Erosion Potential Method) for Calculating Sediment Production and Transportation in Unstudied or Torrential Streams.
W90-03658 2305 2J

Changes in the Quality of the Danube River Water in the Section Smederevo-Kladovo in the Conditions of Backwater Effects.
W90-08629 2309 6G

INSTITUT ZEMNOI KORY, IRKUTSK (USSR).
Karst Hydrogeology of Southern Part of the Siberian Platform.
W90-02495 2303 2F

INSTITUTE FOR BIOLOGICAL RESEARCH, BELGRADE (YUGOSLAVIA). DEPT. OF ICHTHYOLOGY.
Studies on the Contamination Status of the Danube River Basin Waters, Measures of Protection, and Rational Exploitation of the Water Resources.
W90-08610 2309 5B

Effects of Warm Wastewaters from Thermal Power Stations on Ecosystems of the Sava and the Velika Morava, Tributaries of the Danube.
W90-08625 2309 6G

INSTITUTE FOR ECOSYSTEM STUDIES, MILLBROOK, NY.
Chemistry and Transfer of Aluminum in a Forested Watershed in the Adirondack Region of New York, USA.
W90-06934 2308 5B

INSTITUTE FOR ENVIRONMENT AND SYSTEMS ANALYSIS, AMSTERDAM (NETHERLANDS).
Acid Rain Policy in the Netherlands: Application of Mediation Techniques.
W90-09359 2310 5C

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Water Management and Ecological Perspectives of the Upper Rhine's Floodplains.
W90-07331 2308 6F

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Environmental and Artificial Tracer Studies in an Alpine Karst Massif (Austria).
W90-03153 2304 2F

INSTITUTE FOR NAVAL OCEANOGRAPHY, STENNIS SPACE CENTER, MS.
Computing Phase Speeds at Open Boundary.
W90-08260 2309 2L

INSTITUTE FOR PESTICIDE RESEARCH, WAGENINGEN (NETHERLANDS).
Pesticide Contamination of Groundwater in Western Europe.
W90-09262 2310 5B

INSTITUTE FOR SOIL FERTILITY, HAREN (NETHERLANDS).
Pyrite Accumulation in Salt Marshes in the Eastern Scheldt, Southwest Netherlands.
W90-10566 2312 2L

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Zoobenthos in Relation to Organic Matter in Lake Sevan, USSR.
W90-07757 2309 2H

INSTITUTE OF AGRICULTURAL ENGINEERING, HARARE (ZIMBABWE).
Modelling Clod Breakdown by Raindrop Energy on a Fersiallitic Clay Soil.
W90-03381 2304 2J

INSTITUTE OF APPLIED NUCLEAR TECHNOLOGY OF SICHUAN, CHINA.
Application of Nuclear Techniques to Exploit Vugular Pore Water in Red Beds, Sichuan Basin.
W90-03139 2304 2F

INSTITUTE OF BIOLOGY OF THE SOUTHERN SEAS, SEVASTOPOL (USSR).
Contribution of Picoplankton to Primary Production and the Content of Chlorophyll 'a' in Eutrophic Waters as Exemplified by Sevastopol Bay.
W90-00547 2301 2H

Autotrophic Plankton Components in the Eastern Part of the Mediterranean Sea (in Russian).
W90-10749 2312 2L

Problems of the Radiocarbon Method Application for Estimating the Primary Production of Oligotrophic Waters (in Russian).
W90-10750 2312 7B

INSTITUTE OF CIVIL ENGINEERING, TOKYO (JAPAN).
Reduction Measures for Flood Runoff and the Estimation of the Effective Rainfall of the Small Rivers in Tokyo Metropolis.
W90-01644 2302 2A

INSTITUTE OF ENVIRONMENTAL HEALTH AND ENGINEERING, BEIJING (CHINA).
Toxicity of the New Pyrethroid Insecticide, Deltamethrin, to Daphnia magna.
W90-07288 2308 5A

Cadmium Exposure and Health Effects Among Residents in an Irrigation Area with Ore Dressing Wastewater.
W90-07340 2308 5C

INSTITUTE OF ENVIRONMENTAL HEALTH AND ENGINEERING, BEIJING (CHINA). ANALYTICAL CHEMISTRY SECTION.
Investigation on the Concentration Efficiencies of Some Macroreticular and Ambersorb Resins Using Radio-Labelled Organic Contaminants Commonly Encountered in Water.
W90-11744 2312 5A

INSTITUTE OF ENVIRONMENTAL PROTECTION, WARSAW (POLAND).
Modernization and Development of Sewerage and Drainage Systems of Warsaw and Cracow Agglomerations.
W90-01634 2302 5D

Runoff Coefficient Related to Curve Number-SCS Method.
W90-05634 2307 2E

Application of Manning Formula for Polish Sewers.
W90-05662 2307 8B

INSTITUTE OF FISHERIES RESEARCH AND MANAGEMENT, ULAN-UDE (USSR).
Biology of Baikal Omul, Coregonus autumnalis migratorius, in Bratsk Reservoir.
W90-08291 2309 8I

INSTITUTE OF FLOOD CONTROL AND DRAINAGE RESEARCH, DACCA (BANGLADESH).
Groundwater Table Simulation Under Different Rice Irrigation Practices.
W90-00879 2301 3F

INSTITUTE OF FRESHWATER RESEARCH, DROTTNINGHOLM (SWEDEN).
Estimating the Number of Species and Relative Abundance of Fish in Oligotrophic Swedish Lakes Using Multi-Mesh Gillnets.
W90-06601 2308 5G

Changes in the Fish and Zooplankton Communities of Ringsjon, A Swedish Lake Undergoing Man-made Eutrophication.
W90-08072 2309 5C

INSTITUTE OF GAS TECHNOLOGY, CHICAGO, IL.
Gasification of Concentrated Particulate and Solid Substrates by Biphasic Anaerobic Digestion.
W90-03868 2305 5D

Bioremediation of Former Manufactured Gas Plant Sites.
W90-10970 2312 5G

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Potential for Anaerobic Treatment of High Sulfur Wastewater in a Unique Upflow-Fixed Film-Suspended Growth Reactor.
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Environmental Benefits of Further US Hydro Development.
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Enzymology of Ligno-Cellulose Degradation by Pleurotus sajor-caju During Growth on Paper-Mill Sludge.
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Comparative Study of RBC and Activated Sludge in Biotreatment of Wastewater from an Integrated Oil Refinery.
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Removal of Nitrate from Groundwater by a Diaphragm Process with Simultaneous Removal of the Concentrates Produced with Little Residue (Nitratentfernung aus Grundwaessern durch Membranverfahren bei gleichzeitiger, rueckstandsarmer Entsorgung der anfallenden Konzentrate).
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Increase of the Capacity of Anaerobic Sewage Sludge Stabilization by Thermal Pretreatment of the Sludge (Steigerung der Leistungsfaehigkeit der Anaeroben Klaerschlammstabillsierung durch eine Thermische Vorbehandlung des Schlammes).
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Separation Potential of Nanofiltration Membranes.
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Pathways for the Production of Organochlorine Compounds in the Chlorination of Humic Materials.
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Bulking Sludge Causing Bacteria from Sewage Treatment Plants: II. Growth Physiology of Filamentous Bacteria (Blahschlamm verursachende Bakterien aus Klaranlagen. II. Wachstumsphysiologie fadenformiger Bakterien).
W90-10206 2311 5D

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Natural Sewage Treatment Processes From the Landscape Planning Point of View: Possibilities and Limits (Naturnahe Klaerverfahren aus Landschaftsplanerischer Sicht: Moeglichkeiten und Grenzen).
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Residual Aluminium in Drinking-Water Treatment.
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Dewatering Behaviour of Sewage Sludge with Inorganic and Macro-Molecular Means of Flocculation (Entwaesserungsverhalten eines Faulschlammes mit Anorganischen und Makromolekularen).
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Runoff Formation Concept to Model Water Pathways in Forested Basins.
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Waste Water Irrigation Suited to the Environment as Shown by the Example of the 'Abwasserverband Wolfsburg'.
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Experiences with Different Aeration Systems in Germany.
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Hydraulic Calculations for Flow Under Dikes on Consolidated Beds (Untergrundhydraulische Berechnungen an Flussdeichen auf Bindigen Deckschichten).
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Tailings from Coal Mining. Weathering and Solution Processes in the Tailings as Illustrated by Lysimeter Experiments (Die Abgange des Steinkohlenbergbaus. Verwitterungs und Losungsvorgange im Bergematerial, Dargestellt an Lysimeterversuchen).
W90-00180 2301 5B

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W90-04299 2305 2B

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W90-11288 2312 2F

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Report 1986 (Bericht 1986).
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Laboratory and Semi-Technical Field Experiments for Characterizing the Most Important Processes Influencing the Sorption and Mobilization of Heavy Metals in Sand-Filter-Columns (Laborexperimente und Halbtechnische Gelaendeversuche zur Charakterisierung der Wichtigsten Prozesse, Welche die Bindung und Mobilisierung von Spur Enmetallen in Langs Amsandfiltern Beeinflussen).
W90-00267 2301 5B

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Crustacean Plankton and Fish During the First Decade of a Subalpine, Man-Made Reservoir.
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Sea Temperature Variations in the Tsitsikamma Coastal National Park, South Africa, With Notes on the Effect of Cold Conditions on Some Fish Populations.
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Comment on the Use of Colorimetric Determinations of Phenolic Compounds in Surface Water.
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Bacterioplankton in Filtered Brackish Water Cultures: Some Physical and Chemical Parameters Affecting Community Properties.
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Geohydrology of Regional Aquifer Systems in Cretaceous and Older Rocks Underlying the Central United States.
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Activities of the U.S. Geological Survey's Hydrologic Instrumentation Facility in Support of Hazardous- and Toxic-Substances Programs.
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Pattern Analysis of PCDDs and PCDFs in Environmental Samples as an Approach to an Occurrence/Source Correlation.
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Seasonal Cycle of Thermocyclops crassus (Fischer, 1853) (Copepoda:Cyclopoida) in a Shallow, Eutrophic lake.
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Powdered Activated Carbon Selection for Water Treatment.
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British and Scandinavian Lake Sediment Records of Carbonaceous Particles from Fossil-Fuel Combustion.
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12,600 Year Perspective of the Acidification of Lilla Oresjon, Southwest Sweden.
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Algae Fluorescence Test as a Sensitive Biotest on Algicide Substances in Surface Water (Algen-Fluoreszenztest als Empfinklicher Biotest auf Algizide Substanzen im Oberflaechenwasser).
W90-01730 2302 5A

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California Division of Oil and Gas Underground Injection Control Program: A Peer Review.
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Phosphate Load of the River Rhine 1975-1986.
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Limnological Study of Lake Todos Los Santos (Chile): Morphometry, Physics, Chemistry, Plankton, and Primary Productivity.
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W90-11217 2312 5D

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Effects of Chromium and Cadmium Upon Respiration and Survival of Callinectes similis.
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Levels of Pb, Cr and Cd in Callinectes sapidus and C. similis and Their Relation to the Concentration of These Metals in Water and in Sediment (Niveles de Pb, Cr y Cd en Callinectes sapidus y C. similis y su Relacion con la Concentracion de Estos en el Agua y en el Sedimento).
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Dynamics and Sedimentology of the Deposits of the Flood in the Lower Stretch of the Jucar River in October of 1982 (Dinamica y Sedimentologia de los Depositos de la Avenida del Rio Jucar en Octubre de 1982 en su tramo bajo).
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Saprobic Classification of a Highly-Contaminated Cuban Estuary (Classificacion Saprobiotica de un Estuario Cubano Altamente Contaminado).
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Breakdown of Four Leaf Litter Species and Associated Fauna in a Basque Country Forested Stream.
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Heavy Metal Analysis in Fish-kill Cases in Rivers in Guipuzcoa (Spain).
W90-03352 2304 5C

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W90-06039 2307 5B

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Graphic Evolution of the 24,000 Hours (3 Years), Operating Data of a RO Brackish Water Desalination Plant, in Las Palmas, Canary Islands, Spain.
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W90-03094 2304 4B

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W90-01007 2302 7B

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W90-09981 2311 7B

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Behavior of Dissolved Uranium in Groundwaters of the Morro do Ferro Thorium Deposit, Brazil.
W90-00361 2301 2F

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W90-03286 2304 3F

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W90-01413 2302 7C

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Toxicity Test with Fishes (Teste de Toxicidade com Peixes Mantidos em Gaiola Flutuante).
W90-06602 2308 5B

UNIVERSIDADE FEDERAL DE MATO GROSSO, CUIABA (BRAZIL). DEPT. DE BIOLOGIA.
Aquatic Macrophytes and the Physical Chemical Conditions of the 'Alagados', 'Corixos' and Rivers in the Transpantaneira Road, Pantanal Matogrossense (Pocone, MT) (Macrofitas Aquaticas e as Condicoes Fisicas e Quimicas dos 'Alagados', 'Corixos' e Rios, ao Longo da Rodovia Transpantaneira, Pantanal Matogrossense (Pocone-MT)).
W90-09130 2310 2H

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W90-04629 2306 2H

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W90-06580 2308 2H

Spartina alterniflora as a Potential Source of Heavy Metals to the Food Chain of the Sepetiba Bay, Rio de Janiero, Brazil.
W90-07055 2308 5B

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W90-10120 2311 3F

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Plankton, Primary Production and Some Physico-Chemical Factors of Two Lakes from Baixada Maranhense (Plancton, Producao Primaria e Alguns Fatores Fisico-Quimicos de Dois Lagos da Baixada Maranhense).
W90-07060 2308 2H

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Finite Element Solution of Groundwater Flow Problems by Lanczos Algorithm.
W90-02987 2304 2F

Treatment of Raw Domestic Sewage in an UASB Reactor.
W90-04835 2306 5D

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W90-08003 2309 2B

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W90-06618 2308 5B

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W90-10850 2312 5B

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Note on the Distribution of Mn, Zn and Cu in Crabs from Sepetiba Bay (Nota sobre a Distribuicao de Mn, Zn e Cu em Siris da Baia de Sepetiba).
W90-09131 2310 5B

UNIVERSIDADE NOVA DE LISBOA (PORTUGAL). ENVIRONMENTAL SYSTEMS ANALYSIS GROUP.
Environmental Support System for Estuarine Water-Quality Management.
W90-09674 2311 5G

UNIVERSIDADE NOVA DE LISBOA (PORTUGAL). FACULDADE DE CIENCIAS E TECNOLOGIA.
Heavy Metal Contents of Paddy Fields of Alcacer do Sal, Portugal.
W90-07342 2308 5B

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Pesticide Residues in the Po River Watershed: Application of a Mathematical Model.
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UNIVERSITA DEGLI STUDI 'LA SAPIENZA', ROME (ITALY). DIPT. DI BIOLOGIA ANIMALE E DELL 'UOMO.
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W90-02013 2303 5A

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Stochastic Modeling of the Daily Flows in the River Crati, Southern Italy.
W90-01429 2302 2E

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Practical Aspects for the Application of the Diffusion-Convection Theory for Sediment Transport in Turbulent Flows.
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W90-02268 2303 5D

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W90-04450 2305 5D

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W90-08628 2309 2J

UNIVERSITAT DE LES ILLES BALEARS, PALMA DE MALLORCA (SPAIN). DEPT. DE BIOLOGIA Y CIENCIAS DE SALUD.
Limnological Criteria for the Rehabilitation of a Coastal Marsh. The Albufera of Majorca, Balearic Islands.
W90-08446 2309 2L

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W90-00859 2301 5A

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Stochastic Simulation of Monthly Average Flow for Rivers in Dry or Semi-dry Climates (Simulation Stochastique de Debits Moyens Mensuels dans le Cas de Rivieres en Climat Aride ou Semi-aride).
W90-01427 2302 2E

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Transport of Carbon, Nitrogen and Phosphorus in a Brittany River, France.
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UNIVERSITE DE FRANCHE-COMTE, BESANCON (FRANCE). LAB. DE GEOLOGIE STRUCTURALE ET APPLIQUEE.
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W90-07527 2309 5B

UNIVERSITE DE PAU ET DES PAYS DE L'ADOUR (FRANCE). LAB. DE CHIMIE ANALYTIQUE.
Speciation of Tin in Sediments of Arcachon Bay (France).
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Simple Method for Determination of Biodegradable Dissolved Organic Carbon in Water.
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Negative Role of Turbulence in Estuarine Mass Transport.
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W90-12006	2312	5F

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